

RAW SEQUENCE LISTING

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Application Serial Number: 10/511,756
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DATE: 02/08/2006

PATENT APPLICATION: US/10/511,756

TIME: 11:42:31

Input Set : A:\12177804.APP

Output Set: N:\CRF4\02082006\J511756.raw

3 <110> APPLICANT: BERGMANN, ANDREAS
 4 STRUCK, JOACHIM
 5 UHLEIN, MONIKA
 7 <120> TITLE OF INVENTION: USES OF CARBAMOYL PHOSPHATE SYNTHETASE 1 (CPS 1) AND
 8 ITS FRAGMENTS FOR THE DIAGNOSIS OF INFLAMMATORY
 9 DISEASES AND SEPSIS
 11 <130> FILE REFERENCE: 121778-04341933
 13 <140> CURRENT APPLICATION NUMBER: 10/511,756
 C--> 14 <141> CURRENT FILING DATE: 2004-10-19
 16 <150> PRIOR APPLICATION NUMBER: PCT/EP03/03939
 17 <151> PRIOR FILING DATE: 2003-04-15
 19 <150> PRIOR APPLICATION NUMBER: EP 020088415
 20 <151> PRIOR FILING DATE: 2002-04-19
 22 <160> NUMBER OF SEQ ID NOS: 8
 24 <170> SOFTWARE: PatentIn Ver. 2.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 11
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
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 33 1 5 10
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 7
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapiens
 42 <400> SEQUENCE: 2
 43 Asn Gln Pro Val Leu Asn Ile
 44 1 5
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 13
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 3
 54 Ala Gln Thr Ala His Ile Val Leu Glu Asp Gly Thr Lys
 55 1 5 10
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 4
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Homo sapiens
 64 <400> SEQUENCE: 4
 65 Thr Ala His Ile
 66 1

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70 <210> SEQ ID NO: 5
71 <211> LENGTH: 12
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 5
76 Ala Phe Ala Met Thr Asn Gln Ile Leu Val Glu Lys
77   1               5               10
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82 <211> LENGTH: 1500
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 6
87 Met Thr Arg Ile Leu Thr Ala Phe Lys Val Val Arg Thr Leu Lys Thr
88   1               5               10               15
90 Gly Phe Gly Phe Thr Asn Val Thr Ala His Gln Lys Trp Lys Phe Ser
91               20               25               30
93 Arg Pro Gly Ile Arg Leu Leu Ser Val Lys Ala Gln Thr Ala His Ile
94               35               40               45
96 Val Leu Glu Asp Gly Thr Lys Met Lys Gly Tyr Ser Phe Gly His Pro
97   50               55               60
99 Ser Ser Val Ala Gly Glu Val Val Phe Asn Thr Gly Leu Gly Gly Tyr
100  65               70               75               80
102 Pro Glu Ala Ile Thr Asp Pro Ala Tyr Lys Gly Gln Ile Leu Thr Met
103               85               90               95
105 Ala Asn Pro Ile Ile Gly Asn Gly Gly Ala Pro Asp Thr Thr Ala Leu
106               100              105              110
108 Asp Glu Leu Gly Leu Ser Lys Tyr Leu Glu Ser Asn Gly Ile Lys Val
109               115              120              125
111 Ser Gly Leu Leu Val Leu Asp Tyr Ser Lys Asp Tyr Asn His Trp Leu
112               130              135              140
114 Ala Thr Lys Ser Leu Gly Gln Trp Leu Gln Glu Glu Lys Val Pro Ala
115 145              150              155              160
117 Ile Tyr Gly Val Asp Thr Arg Met Leu Thr Lys Ile Ile Arg Asp Lys
118               165              170              175
120 Gly Thr Met Leu Gly Lys Ile Glu Phe Glu Gly Gln Pro Val Asp Phe
121               180              185              190
123 Val Asp Pro Asn Lys Gln Asn Leu Ile Ala Glu Val Ser Thr Lys Asp
124               195              200              205
126 Val Lys Val Tyr Gly Lys Gly Asn Pro Thr Lys Val Val Ala Val Asp
127               210              215              220
129 Cys Gly Ile Lys Asn Asn Val Ile Arg Leu Leu Val Lys Arg Gly Ala
130 225              230              235              240
132 Glu Val His Leu Val Pro Trp Asn His Asp Phe Thr Lys Met Glu Tyr
133               245              250              255
135 Asp Gly Ile Leu Ile Ala Gly Gly Pro Gly Asn Pro Ala Leu Ala Glu
136               260              265              270
138 Pro Leu Ile Gln Asn Val Arg Lys Ile Leu Glu Ser Asp Arg Lys Glu
139               275              280              285
141 Pro Leu Phe Gly Ile Ser Thr Gly Asn Leu Ile Thr Gly Leu Ala Ala

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142	290	295	300
144	Gly Ala Lys Thr Tyr Lys Met Ser Met Ala Asn Arg Gly Gln Asn Gln		
145	305	310	315 320
147	Pro Val Leu Asn Ile Thr Asn Lys Gln Ala Phe Ile Thr Ala Gln Asn		
148		325	330 335
150	His Gly Tyr Ala Leu Asp Asn Thr Leu Pro Ala Gly Trp Lys Pro Leu		
151		340	345 350
153	Phe Val Asn Val Asn Asp Gln Thr Asn Glu Gly Ile Met His Glu Ser		
154		355	360 365
156	Lys Pro Phe Phe Ala Val Gln Phe His Pro Glu Val Thr Pro Gly Pro		
157		370	375 380
159	Ile Asp Thr Glu Tyr Leu Phe Asp Ser Phe Phe Ser Leu Ile Lys Lys		
160	385	390	395 400
162	Gly Lys Ala Thr Thr Ile Thr Ser Val Leu Pro Lys Pro Ala Leu Val		
163		405	410 415
165	Ala Ser Arg Val Glu Val Ser Lys Val Leu Ile Leu Gly Ser Gly Gly		
166		420	425 430
168	Leu Ser Ile Gly Gln Ala Gly Glu Phe Asp Tyr Ser Gly Ser Gln Ala		
169		435	440 445
171	Val Lys Ala Met Lys Glu Glu Asn Val Lys Thr Val Leu Met Asn Pro		
172		450	455 460
174	Asn Ile Ala Ser Val Gln Thr Asn Glu Val Gly Leu Lys Gln Ala Asp		
175	465	470	475 480
177	Thr Val Tyr Phe Leu Pro Ile Thr Pro Gln Phe Val Thr Glu Val Ile		
178		485	490 495
180	Lys Ala Glu Gln Pro Asp Gly Leu Ile Leu Gly Met Gly Gly Gln Thr		
181		500	505 510
183	Ala Leu Asn Cys Gly Val Glu Leu Phe Lys Arg Gly Val Leu Lys Glu		
184		515	520 525
186	Tyr Gly Val Lys Val Leu Gly Thr Ser Val Glu Ser Ile Met Ala Thr		
187		530	535 540
189	Glu Asp Arg Gln Leu Phe Ser Asp Lys Leu Asn Glu Ile Asn Glu Lys		
190	545	550	555 560
192	Ile Ala Pro Ser Phe Ala Val Glu Ser Ile Glu Asp Ala Leu Lys Ala		
193		565	570 575
195	Ala Asp Thr Ile Gly Tyr Pro Val Met Ile Arg Ser Ala Tyr Ala Leu		
196		580	585 590
198	Gly Gly Leu Gly Ser Gly Ile Cys Pro Asn Arg Glu Thr Leu Met Asp		
199		595	600 605
201	Leu Ser Thr Lys Ala Phe Ala Met Thr Asn Gln Ile Leu Val Glu Lys		
202		610	615 620
204	Ser Val Thr Gly Trp Lys Glu Ile Glu Tyr Glu Val Val Arg Asp Ala		
205	625	630	635 640
207	Asp Asp Asn Cys Val Thr Val Cys Asn Met Glu Asn Val Asp Ala Met		
208		645	650 655
210	Gly Val His Thr Gly Asp Ser Val Val Val Ala Pro Ala Gln Thr Leu		
211		660	665 670
213	Ser Asn Ala Glu Phe Gln Met Leu Arg Arg Thr Ser Ile Asn Val Val		
214		675	680 685

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216 Arg His Leu Gly Ile Val Gly Glu Cys Asn Ile Gln Phe Ala Leu His
217      690                      695                      700
219 Pro Thr Ser Met Glu Tyr Cys Ile Ile Glu Val Asn Ala Arg Leu Ser
220 705                      710                      715                      720
222 Arg Ser Ser Ala Leu Ala Ser Lys Ala Thr Gly Tyr Pro Leu Ala Phe
223                      725                      730                      735
225 Ile Ala Ala Lys Ile Ala Leu Gly Ile Pro Leu Pro Glu Ile Lys Asn
226                      740                      745                      750
228 Val Val Ser Gly Lys Thr Ser Ala Cys Phe Glu Pro Ser Leu Asp Tyr
229                      755                      760                      765
231 Met Val Thr Lys Ile Pro Arg Trp Asp Leu Asp Arg Phe His Gly Thr
232      770                      775                      780
234 Ser Ser Arg Ile Gly Ser Ser Met Lys Ser Val Gly Glu Val Met Ala
235 785                      790                      795                      800
237 Ile Gly Arg Thr Phe Glu Glu Ser Phe Gln Lys Ala Leu Arg Met Cys
238                      805                      810                      815
240 His Pro Ser Ile Glu Gly Phe Thr Pro Arg Leu Pro Met Asn Lys Glu
241                      820                      825                      830
243 Trp Pro Ser Asn Leu Asp Leu Arg Lys Glu Leu Ser Glu Pro Ser Ser
244      835                      840                      845
246 Thr Arg Ile Tyr Ala Ile Ala Lys Ala Ile Asp Asp Asn Met Ser Leu
247      850                      855                      860
249 Asp Glu Ile Glu Lys Leu Thr Tyr Ile Asp Lys Trp Phe Leu Tyr Lys
250 865                      870                      875                      880
252 Met Arg Asp Ile Leu Asn Met Glu Lys Thr Leu Lys Gly Leu Asn Ser
253                      885                      890                      895
255 Glu Ser Met Thr Glu Glu Thr Leu Lys Arg Ala Lys Glu Ile Gly Phe
256                      900                      905                      910
258 Ser Asp Lys Gln Ile Ser Lys Cys Leu Gly Leu Thr Glu Ala Gln Thr
259      915                      920                      925
261 Arg Glu Leu Arg Leu Lys Lys Asn Ile His Pro Trp Val Lys Gln Ile
262      930                      935                      940
264 Asp Thr Leu Ala Ala Glu Tyr Pro Ser Val Thr Asn Tyr Leu Tyr Val
265 945                      950                      955                      960
267 Thr Tyr Asn Gly Gln Glu His Asp Val Asn Phe Asp Asp His Gly Met
268                      965                      970                      975
270 Met Val Leu Gly Cys Gly Pro Tyr His Ile Gly Ser Ser Val Glu Phe
271      980                      985                      990
273 Asp Trp Cys Ala Val Ser Ser Ile Arg Thr Leu Arg Gln Leu Gly Lys
274      995                      1000                      1005
276 Lys Thr Val Val Val Asn Cys Asn Pro Glu Thr Val Ser Thr Asp Phe
277      1010                      1015                      1020
279 Asp Glu Cys Asp Lys Leu Tyr Phe Glu Glu Leu Ser Leu Glu Arg Ile
280 1025                      1030                      1035                      1040
282 Leu Asp Ile Tyr His Gln Glu Ala Cys Gly Gly Cys Ile Ile Ser Val
283                      1045                      1050                      1055
285 Gly Gly Gln Ile Pro Asn Asn Leu Ala Val Pro Leu Tyr Lys Asn Gly
286      1060                      1065                      1070
288 Val Lys Ile Met Gly Thr Ser Pro Leu Gln Ile Asp Arg Ala Glu Asp

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289          1075          1080          1085
291 Arg Ser Ile Phe Ser Ala Val Leu Asp Glu Leu Lys Val Ala Gln Ala
292      1090          1095          1100
294 Pro Trp Lys Ala Val Asn Thr Leu Asn Glu Ala Leu Glu Phe Ala Lys
295 1105          1110          1115          1120
297 Ser Val Asp Tyr Pro Cys Leu Leu Arg Pro Ser Tyr Val Leu Ser Gly
298          1125          1130          1135
300 Ser Ala Met Asn Val Val Phe Ser Glu Asp Glu Met Lys Lys Phe Leu
301          1140          1145          1150
303 Glu Glu Ala Thr Arg Val Ser Gln Glu His Pro Val Val Leu Thr Lys
304          1155          1160          1165
306 Phe Val Glu Gly Ala Arg Glu Val Glu Met Asp Ala Val Gly Lys Asp
307      1170          1175          1180
309 Gly Arg Val Ile Ser His Ala Ile Ser Glu His Val Glu Asp Ala Gly
310 1185          1190          1195          1200
312 Val His Ser Gly Asp Ala Thr Leu Met Leu Pro Thr Gln Thr Ile Ser
313          1205          1210          1215
315 Gln Gly Ala Ile Glu Lys Val Lys Asp Ala Thr Arg Lys Ile Ala Lys
316          1220          1225          1230
318 Ala Phe Ala Ile Ser Gly Pro Phe Asn Val Gln Phe Leu Val Lys Gly
319      1235          1240          1245
321 Asn Asp Val Leu Val Ile Glu Cys Asn Leu Arg Ala Ser Arg Ser Phe
322      1250          1255          1260
324 Pro Phe Val Ser Lys Thr Leu Gly Val Asp Phe Ile Asp Val Ala Thr
325 1265          1270          1275          1280
327 Lys Val Met Ile Gly Glu Asn Val Asp Glu Lys His Leu Pro Thr Leu
328          1285          1290          1295
330 Asp His Pro Ile Ile Pro Ala Asp Tyr Val Ala Ile Lys Ala Pro Met
331          1300          1305          1310
333 Phe Ser Trp Pro Arg Leu Arg Asp Ala Asp Pro Ile Leu Arg Cys Glu
334          1315          1320          1325
336 Met Ala Ser Thr Gly Glu Val Ala Cys Phe Gly Glu Gly Ile His Thr
337      1330          1335          1340
339 Ala Phe Leu Lys Ala Met Leu Ser Thr Gly Phe Lys Ile Pro Gln Lys
340 1345          1350          1355          1360
342 Gly Ile Leu Ile Gly Ile Gln Gln Ser Phe Arg Pro Arg Phe Leu Gly
343          1365          1370          1375
345 Val Ala Glu Gln Leu His Asn Glu Gly Phe Lys Leu Phe Ala Thr Glu
346          1380          1385          1390
348 Ala Thr Ser Asp Trp Leu Asn Ala Asn Asn Val Pro Ala Thr Pro Val
349          1395          1400          1405
351 Ala Trp Pro Ser Gln Glu Gly Gln Asn Pro Ser Leu Ser Ser Ile Arg
352      1410          1415          1420
354 Lys Leu Ile Arg Asp Gly Ser Ile Asp Leu Val Ile Asn Leu Pro Asn
355 1425          1430          1435          1440
357 Asn Asn Thr Lys Phe Val His Asp Asn Tyr Val Ile Arg Arg Thr Ala
358          1445          1450          1455
360 Val Asp Ser Gly Ile Pro Leu Leu Thr Asn Phe Gln Val Thr Lys Leu
361          1460          1465          1470

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VERIFICATION SUMMARY

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